



## VEH Series

## Features

- $4\phi \sim 10\phi$ , 105°C, 2,000 hours assured
- Vertical chip type miniaturized
- Low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance

NSCN® | WWW.NSCN.COM.CN

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南京南山半导体有限公司

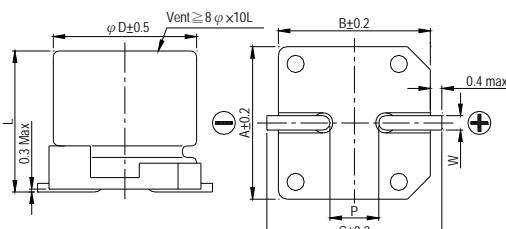


Marking color: Black

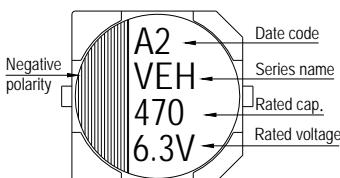
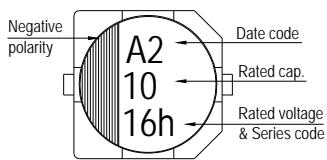
## Specifications

Items	Performance						
Category Temperature Range	-55°C ~ +105°C						
Capacitance Tolerance	$\pm 20\%$						(at 120Hz, 20°C)
Leakage Current (at 20°C)	$I = 0.01CV$ or $3(\mu A)$ whichever is greater (after 2 minutes) Where, C = rated capacitance in $\mu F$ V = rated DC working voltage in V						
Dissipation Factor ( $\tan\delta$ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50
	$\tan\delta$ (max)	0.30	0.26	0.22	0.16	0.13	0.13
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Rated Voltage	6.3	10	16	25	35	50
	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2
Endurance	Z(-55°C)/Z(+20°C)	10	7	5	3	3	3
	Test Time	2,000 Hrs					
	Capacitance Change	Within $\pm 25\%$ of initial value for $\phi D \leq 6.3$ mm; Within $\pm 20\%$ of initial value for $\phi D \geq 8$ mm					
	Dissipation Factor	Less than 200% of specified value					
	Leakage Current	Within specified value					
* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hours at 105°C.							
Shelf Life Test	Test Time	1,000 Hrs					
	Capacitance Change	Within $\pm 25\%$ of initial value for $\phi D \leq 6.3$ mm; Within $\pm 20\%$ of initial value for $\phi D \geq 8$ mm					
	Dissipation Factor	Less than 200% of specified value					
	Leakage Current	Within specified value					
Ripple Current & Frequency Multipliers	Frequency (Hz)	50, 60	120	1k	10k up		
	Multiplier	0.64	0.8	0.93	1.0		

## Diagram of Dimensions



## Marking

 $\phi D \leq 6.3$ mm $\phi D = 8 \sim 10$  mm

## Lead Spacing and Diameter

$\phi D$	L	A	B	C	W	P $\pm 0.2$
4	$5.7 \pm 0.3$	4.3	4.3	5.1	0.5 ~ 0.8	1.0
5	$5.7 \pm 0.3$	5.3	5.3	5.9	0.5 ~ 0.8	1.5
6.3	$5.7 \pm 0.3$	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	$10 \pm 0.5$	8.4	8.4	9.0	0.7 ~ 1.1	3.1
10	$10 \pm 0.5$	10.4	10.4	11.0	0.7 ~ 1.3	4.7
10	$10.3 \pm 0.5$	10.4	10.4	11.0	0.7 ~ 1.3	4.7

Dimension:  $\phi D \times L$ (mm)

Ripple Current: mA/rms at 100k Hz, 105°C

Impedance:  $\Omega$ / at 100k Hz, 20°C

## Dimension &amp; Permissible Ripple Current

$\mu F$	V. DC Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)			
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	
3.3	3R3																	4x5.7	5.0	30
4.7	4R7										4x5.7	3.2	65	4x5.7	3.2	65	4x5.7	5.0	30	
10	100							4x5.7	3.2	65	5x5.7	1.5	110	5x5.7	1.5	110	5x5.7	3.0	50	
22	220				4x5.7	3.2	65	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	2.0	70	
33	330	4x5.7	3.2	65	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.6	300	
47	470	5x5.7	1.5	110	6.3x5.7	0.85	170	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.6	300	
100	101	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	8x10	0.6	300	
150	151	6.3x5.7	0.85	170	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.3	500	
220	221	6.3x5.7	0.85	170	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670				
330	331	8x10	0.45	450	8x10	0.45	450	8x10	0.45	450	10x10.3	0.25	670							
470	471	8x10	0.45	450	8x10	0.45	450	10x10	0.25	670										
820	821	10x10	0.25	670	10x10	0.25	670													
1,000	102	10x10	0.25	670																

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